#### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

ACC NRI AP6033505

SOURCE CODE: UR/0413/66/000/018/0136/0136

INVENTOR: Soyfer, A. M.; Kodnir, D. S.; Bayborodov, Yu. I.

ORG: none

TITLE: Three-layer slide bearing. Class 47, No. 186225. [Announced by the Kuybyshev Aviation Institute (Kuybyshevskiy aviatsionnyy institut)]

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 136

TOPIC TAGS: aircraft engine bearing, slide bearing, teflon, antifriction bearing, engine component, protective coating, OPARING MATERIAL

ABSTRACT: The proposed three-layer slide bearing has a first layer made of hard material, an intermediate layer of porou, elastic material, and an inner layer made of teflon, pressed into the elastic material of the intermediate layer with the teflon penetrating to a certain depth into its pores (see Fig. 1). In order to increase the damping properties and the wear resistance of the bearing when the shaft is misaligned as well as to ensure variable stiffness in the tangential and axial directions, the intermediate layer is made of the elastic-damping wire mesh described in the Author Certificate No. 136608. Orig. art. has: 1 figure.

Card 1/2

UDC: '621.822.5

ACC NR: AP7007683 SOURCE CODE: UR/0386/66/003/002/0092/0096

AUTHOR: Bayborodov, Yu. T.; Gott, Yu. V.; Ioffe, M. S.; Yushmanov, Ye. Ye.

ORG: none

TITIE: Unstable states of a plasma in a trap with combined field

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu, v. 3, no. 2, 1966, 92-96

TOPIC TAGS: plasma instability, plasma density, spectrometer, ion current, plasma antenna, plasma injection

ABSTRACT: The authors investigate distinct unstable states of a plasma observed in a trap with combined field ("minimum B" type) and offer a possible interpretation of the physical nature of the instability. It has been established that each density drop is accompanied by the appearance of high-frequency fields in the plasma. A loop antenna installed near the trap wall registered a burst of electromagnetic radiation whose spectrum consists of the ion-cyclotron frequency and its harmonics (Fig. ld); the frequency corresponds to the magnitude of the magnetic field in the central region of the trap. The burst duration, as well as the duration of the drop itself, is 15 - 20 usec. Figure lc shows the flux of neutral atoms produced by charge exchange and possessing an energy of 36 keV. At the start of the plasma decay there are no ions with this energy, and their appearance coincides exactly

**Card** 1/3

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# "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

Mineralogical characteristics of the Achik-Tash ore deposit and problems relative to its origin. Trudy Inst. gool. AN Kir. SSR no.10:125-157 '58. (MIRA 12:9)  (Kirghiz Range-Mineralogy)	BAYB	JLATOV, E.B.	_			
		preblems relat	tive to its origin.  158.	Trudy Inst. geo	l. AN Kir. SSR	

BAYBULATOV, E. B.: Master Geolog-Mineralog Sci (diss) -- "The geology and genesis of the Achik-Tashskiy sulfur-pyrites deposit". Moscow, 1958. 18 pp (Min Higher Educ, Moscow Geological Prospecting Inst im S. Ordzhonikidze), 200 copies (KL, No 8, 1959, 135)

BAYBULATOV, E. B., Cand Geol-Min Sci -- (diss) "Geological character-istics and the mineralogy of the Achik-Tashskiy iron pyrites deposit." Moscow, 1960. 25 pp; (Academy of Sciences USSR, Inst of the Geology of Ore Deposits, Mineralogy, Petrography, and Geochemistry); 150 copies; price not given; (KL, 30-60, 137)

# BAYBULATOV, E.B.

Contact metarmorphism of ores in the Achik-Tash deposit. Izv.

AN Kir. SSR. Ser. est. i tekh. nauk 2 no.9:107-115 60.

(MIRA 14:7)

(Achik-Tash region-Metarmorphism (Geology))

POPOV, V.M.; BAYEULATOV, E.B.

Cuprous sandstones in ancient formations of the Talas Ala-Tau.

Izv. AN Kir. SSR. Ser. est. 1 tekh. nauk 4 no.3:41-56 '62.

(MIRA 15:11)

(Talas Ala-Tau—Sandstone)

BAYBULATOV, E.B.

Diagenetic origin of ore concentration in cuprous sandstones in some deposits of northern Kirghizia. Zap. Kir. otd. Vses. min. ob-va no.3:59-65 '62. (MIRA 17:11)

KOROLEV, V.G., otv. red.; ADYSHEV, M.M., akademik, glav. red.; BAY BULATOV, E.B., red.; BURYKHYN, I.V., akademik, red.; CRIGORENKO, P.G., red.; DAVLETOV, I.D., red.; KONYUK, A.A., red.; POPOV, V.M., akademik, red.; SURGAY, V.T., red.

> [Materials on the geology of ore deposits in the Tien Shan] Materialy po geologii rudnykh mestorozhdenii Tian-Shania. Frunze, Izd-vo "Ilim," 1964. 140 p. (MIRA 17:8)

- 1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut geologii. 2. Akademiya nauk Kirgizskoy SSR (for Adyshev, Popov).
- 3. Institut geologii AN Kirgizskoy SSR (for all).

ADYSHEV, M.M., akademik, glav. red.; KOROLEV. V.G., zam. glav. red.; BAYHULATOV, E.B., red. BURYKHIN, I.V., red.; CRIGORENKO, P.G., red.; DAVLETOV, I.D., red.; KONYUK, A.A., red.; POPOV, V.M., akademik, red.; SURGAY, V.T.,

> [Tectonics of the western regions of the northern Tien Shan] Tektonika zapadnykh raionov Severnogo Tian'-Shania. Frunze, "Ilim," 1964. 143 p. (MIRA 17:8)

- 1. Akademiya nauk Kirgizskoy SSR Frunze. Institut geologii. 2. Akademiya nauk Kirgizskoy SSR (for Adyshev, Popov).

EAYBULATOV, Erik Begaliyevich; POPOV, V.M., akademik, otv. red.

[Achik-Tash iron-pyrite deposit and its genesis] Achik-Tashskoe sernokolchedannoe mestorozhdenie i ego genezis.

Frunze, Izd-vo AN Kirg.SSR, 1964. 190 p. (MIRA 17:5)

1. Akademiya nauk Kirgizskoy SSR (for Popov).

BAYBULATOV, F. Kh.

Demonstration of the Doppler effect in acoustics. Usp. fiz. nauk 84 no.42729 D 64 (MIRA 18:1)

ACC NR: AP7002193

SOURCE CODE: UR/0203/66/006/006/1051/1060

AUTHOR: Baybulatov, R. B.; Krasnushkin, P. Ye.

ORG: Mathematics Institute im. V. A. Steklov, AN SSSR (Matematicheskiy institut AN SSSR)

TITLE: Determination of the daylight profile of electron concentration of C and D layers of the ionosphere as determined from very long wave fields and atmospheric pressure profiles

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 6, 1966, 1051-1060

TOPIC TAGS: ionospheric electron density, ionospheric radio wave

ABSTRACT: A method optimizing the correlations between low frequency radio waves and ionospheric properties is described. Review of present status of predictions of the electron concentration profiles in the ionosphere is given, showing the weaknesses of present methods. To improve the accuracy of the electron concentration and collision-frequency-of-electrons profiles, use of more accurate data is made. The resulting problem requires very long computation runs due to the large number of iterative steps required. This approach is simplified by recourse to a computational method called the "optimization method" as outlined by Bellman. An example of the summer profile (for temperature latitudes) of the ionosphere consisting of two sub-

UDC: 550.388.2

Card 1/2

ACC NR: AP7002193

layers is given. At the present time equatorial profiles can not be obtained due to insufficient data, although approximate computations show the absence of a C-layer. Several profiles are given for sets of parameters that have been tabulated in the text. The effects of these parameters on the profiles is discussed and the most critical parameters are identified. Orig. art. has: 4 figures, 14 formulas, 1 table.

SUB CODE: 04,20/ SUBM DATE: 11Nov65/ ORIG REF: 009/ OTH REF: 015

Card 2/2

ACC NR. AP6036843

SOURCE CODE: UR/0020/66/171/002/0340/0343

AUTHOR: Krasnushkin, P. Ye.; Baybulatov, R. B.

ORG: Mathematics Institute im. V. A. Steklov, Academy of Sciences SSSR (Matematicheskiy institut Akademii nauk SSSR)

TITLE: On the violation of reciprocity principle in daytime propagation of superlong radio waves around the earth

SOURCE: AN SSSR. Doklady, v. 171, no. 2, 1966, 340-343

TOPIC TAGS: radio wave propagation, vlf propagation, waveguide propagation, earth magnetic field, ionospheric radio wave

ARSTRACT: The authors explain a phenomenon, which they call the valve effect, and which consists in the fact that the attenuation of superlong waves on paths from east to west is larger than in the opposite direction, especially during daytime propagation near the geomagnetic equator. Although this phenomenon has not been taken into account in the existing waveguide theory of superlong waves, it is shown that allowance for the valve effect can be made by using a method developed by one of the authors earlier (Krasnushkin, DAN v. 171, no. 1, 1966). This method is used to calculate the impedances contained in the equation for the wave numbers of the normal waves, with account taken not only of the vertical component of the earth's magnetic

**Card 1/2** 

UDC: 538.566

ACC NR: AP6036843

field, but also of the horizontal components along and across the propagation path. It is shown that the parameters of TH waves for arbitrary daytime paths on earth can be calculated with sufficient accuracy by means of the derived impedance equations. The damping coefficients and the differences of the angular wave numbers are electronically computed for TH1 waves with two types of profiles (medium latitudes in the summer and equatorial zone). In medium latitudes the valve effect is attenuated by the C layer of the icnosphere, which is produced by cosmic rays, and by the decrease in the latitudinal component of the magnetic field. The absence of the C layer in the equatorial zone is also confirmed by the present results. Orig. art. has: 3 figures

SUB CODE: 09/ SUBM DATE: 27Dec65/ ORIG REF: 004/ OTH REF: 010

Card 2/2

#### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

L 40086-66 EWT(d)/T IJP(c) GD

ACC NR: AT6019247 SOURCE CODE: UR/0000/05/000/0174/0181

AUTHOR: Amerbayev, V. H.; Baybulatov, R. B.

ORG: none

TITLE: On one case of the reconstruction of an original function

SOURCE: Kazakhstanskaya mezhuzovskaya nauchnaya konferentsiya po matematike i mekhanike. lst, Alma-Ata, 1963. Trudy, Izd-vo Nauka KazSSR, 1965, 174-181

TOPIC TAGS: ordinary differential equation, integral equation, Laplace transform, approximate solution

ABSTRACT: A method is considered for the <u>inverse Laplace</u> transform for equations with constant coefficients. The procedure is divided into two steps: the determination of the poles of the given function and their multiplicity; the construction of the original function by the use of the Cauchy-Heaviside formula. An example is offered to illustrate the use of the algorithm adduced for finding the multiplicity of poles. Orig. art. has: 41 formulas, 2 tables.

SUB CODE: 12/ SUBM DATE: 18Nov65/ ORIG REF: 004/ OTH REF: 001

Card 1/1 Oll-

# BAYBULATOVA, S.G., aspirant; GAVRILOVA, T.B., kand.tekhn.nauk

Dispersion capacity of flour obtained with separate break systems. Soob. i ref. VNIIZ no.4:16-21 '61. (MIRA 16:5)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut zerna i produktov yego pererabotki (for Baybulatova). 2. Moskovskiy gosudarstvennyy universitet (for Gavrilova).

(Flour)

BAYBULATOVA, Z.K.; LEVIN, A.I.; RIKHTER, V.G.

Relation between the basic structural elements of the Kara-Bogaz region. Izv. AN SSSR Ser. geol. 29 no.7:52-58 J1 '64 (MIRA 18:1)

l. Nauchno-issledovatel'skaya laboratoriya geologicheskikh kriteriyev otserki perspektiv neftegazonosnosti, Moskva.

ARKHIPOV, A.Ya.; ALTAYEVA, N.V.; BAYBULATOVA, Z.K.; VISKOVSKIY, Yu.A.;

GOLENKOVA, N.P.; KRAVCHENKO, M.F.; KUPRIN, P.N.; LEVIN, A.I.;

POL'STER, L.A.; SEMOV, V.N.; SYRNEV, I.P.; USHKO, K.A.;

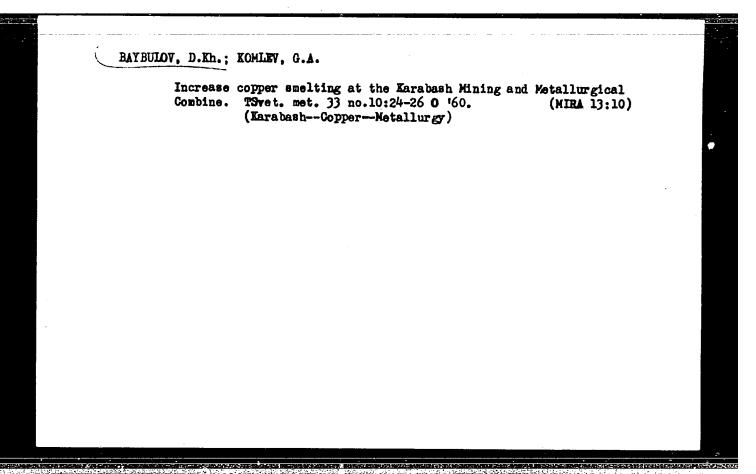
SHOLOKHOV, V.V.; Prinimali uchastiye: RODIONOVA, M.K.; CHEL'TSOV,

Yu.G.; KUZNETSOV, Yu.Ya., kand. geograf. nauk, nauchnyy red.

[Geology and oil and gas potentials of the south of the U.S.S.R.; Kara-Bogaz-Gol (Gulf) region (eastern part of the Middle Caspian oil- and gas-bearing basin).] Geologiia i neftegazonosnost' iuga SSSR; Prikarabozaz'e (vostochnaia chast' Srednekaspiiskogo neftegazonosnogo basseina). Leningrad, Nedra, 1964. 300 p. (Trudy Nauchno-issledovatel'skoy laboratorii geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti no.12).

KHUDYAKOV, I.F.; TIKHONOV, A.I.; RYBNIKOV, V.I.; Prinimali uchastiye:
POD'YACHEV, Yu. A., inzh.; BAYBULOV, D.Kh., inzh.; OSOKIN, V.V.,
inzh.

Copper balance in the retallurgical production of the Karabash Mining and Metallurgical Combine. Sbor. nauch. trud. Ural. politekh. inst. no. 134:14-22 '63. (MIRA 17:1)



# BAYBURIN, G.

At the Sterlitamak Grain Milling Combine. Mukrelev.prom. 27 no.5:9-10 My '61. (MIRA 14:6)

1. Glavnyy inzh. Sterlitamasksogo mel'kombinata. (Sterlitamak—Flour mills)

#### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

L 10355-66 EVT(1) JH ACC NR: AP6014240

SOURCE CODE: UR/0109/66/011/005/0860/0869

AUTHOR: Bayburin, V. B.; Sobolev, G. L.

ORG: none

TITLE: Calculating space-charge fields in a plane-parallel magnetron 25

SOURCE: Radiotekhnika i elektronika, v. 11, no. 5, 1966, 860-869

TOPIC TAGS: magnetron, space charge

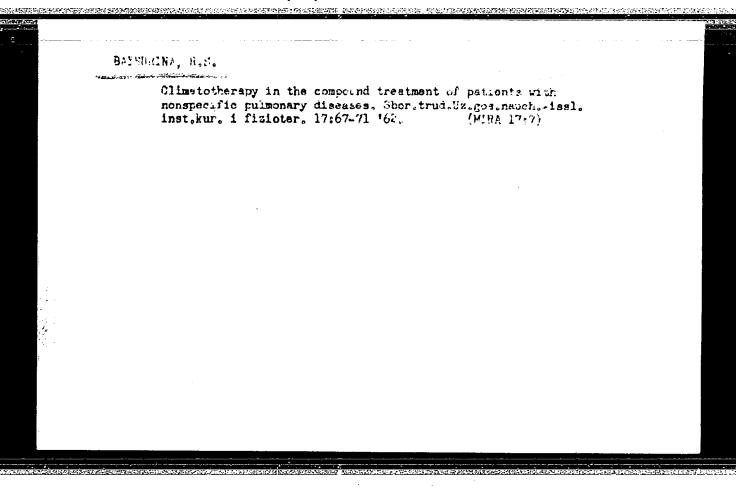
ABSTRACT: An analytical solution is obtained for the space-charge field in a plane-parallel magnetron; the solution takes into account the specified electron "spoke" (stream) shape and specified bounds and holds true for any point of the interaction space. The transverse component of the electric field of the "spoke" space charge is determined. Triagonal, multi-trapezoid, and arbitrary shapes of the "spoke" are examined. Two extreme cases of zero boundary potential are considered: (a) zero potential approaching infinity and (b) zero potential at the "spoke" boundary. An exact solution is developed for the "a" case and an approximate solution for the "b" case. Orig. art. has: 5 figures and 42 formulas.

SUB CODE: 09 / SUBM DATE: 22Dec64 / ORIG REF: 004 / OTH REF: 004

Card 1/1/1/

UDC: 621.385.64,001.24:537.525.92

# "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2



# BATBUROV, B. S.

Avtomaticheskii kontrol' razmerov v mashinostroenii. Moskva, ITEIN Gosplana SSSR, 1948. 32 p.

Automatic control of dimensions in mechanical engineering.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

BAYBUROV, B. S.

Avtomatizatsiia kontrolia detalei dvigatelia. Novye konstruktsii priborov i avtomatov. Moskva, Mashgiz, 1948. 46 p.

Automatic control of engine parts. New designs of instruments and automatic machines.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

BAYTUROY, .S.

Oct. 48

USCR/Engineering Gauges Mensuration

"Automatic Control of Dimensions," Prof I.Te. Gorodetskiy, Dr Tech Sci, Yu.G. Gorodelsky, Engr, Sci Res Bu of Interchangeability, S. Vikiman, Canl Tech Sci, Sci Res Electroautomatic Lab, B.C. Bayburov, Engr, Cen Inst of Labor and Mech, Ye. M. Levenson, En r, Auto Works imeni Stalin, 62 pp

"Vest Meshinostroy" No. 10 -1948

Describes various models of automatic gauges, with 12 illustrations

Head of Department for the Automatization of Control Methods at the Central Institute for the Organization of Labor and Mechanization of Production

#### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

BAYBUROV, 3. S.

Pribory dlia statischeskogo analiza i knotrolia produktsii i masninostroemii (Instruments for statistical analysis and production control in machine-building). Moskva, Mashgiz, 1952. 176 p.

So: Monthly List of Russian Accessions, Vol 6, No. 3, June 1953

BAYBUROV, B.S. [author]; ZHURAVLEV, A.M. [reviewer]. "Instruments and automatic machines for statistical analysis and control of production in machine building. B.S. Baiburov. Reviewed by A.M. Zhuravlev. Sov.kniga no.8:40-42 Ag 153. (MIRA 6:8) (Production control) (Baiburov, B.S.)

CIA-RDP86-00513R000204020010-2"

APPROVED FOR RELEASE: 06/06/2000

BAYBUROV, B.S. [author]; KERCHIKER, V.I.; ZHUKHOVITSKIY, A.F. [reviewers].

"Instruments and automatic machines for statistical analysis and control of production in machine building." B.S.Baiburov. Reviewed by V.I.

Kerchiker, A.F.Zhukhovitskii. Avt.trakt.prom. no.9:32-3 of cover. S '53.

(MIRA 6:9)

1. Ministerstvo mashinostroyenii (for Kerchiker and Zhukhovitskiy).

(Machinery industry) (Baiburov, B.S.)

DAYBUROV, B.S.

Raise technical standards in agricultural machinery production.

Trakt. i sel'khosmash. no.3:27-32 Mr 158. (MIRA 11:5)

l. Ispolnyayushchiy obyasannosti samestitelya direktora po nauchnoy chasti Mauchno-issledovatel'skogo instituta Traktorsel'khosmash. (Agricultural machinery industry)

# "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

BAYRUROV, B.S.

Automation of tractor and agricultural machinery plants.

Trakt. i sel'khozmash. no.10:31-37 0 58. (MIRA 11:10)

1. Nauchno-issledovatel'skiy institut Traktorosel'khozmash.
(Tractor industry) (Agricultural machinery industry)
(Automation)

BERKLAYD, I.M.; KUROCHKIN, A.P.; LYAKHOVSKIY, A.V.; SHETKOV, A.M.; CHUDOV, V.A.; BAYBUROV, B.S., ryd.; KOCHEHOV, M.I., red.; MALYY, D.D., red.; EMSPAKHOTHAYA, T.P., nauchnyy red.; YELISEYEV, M.S., red. izd-va; TIKHANOV, A.Ya., tekhn.red.

[Transducers and measuring gages] Detchiki i izmeritel nye golovki. Pod red. B.S.Baiburova, M.I.Kochenova, D.D.Malogo. Moskva, Gos. nsuchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 158 p.

(Transducers) (Gages) (MIRA 14:1)

BERKLAYD, I.M.; VIKIMAN, V.S., doktor tekhm. nauk; DRAUDIN, A.T.; KOPANEVICH,
N.Ye.; OVCHARENKO, G.I.; TUHENSHLYAK, Z.L.; CHASOVNIKOV, G.V.; TSEYT—
LIN, Ya.M.; BAYBUROV, B.S., red.; KOCHENOV, M.I., red.; MALTI, D.D.,
red.; STROGANOV, L.P.; INEM., red. izd-va; DOERITSYNA, R.I., tekhm.
red.

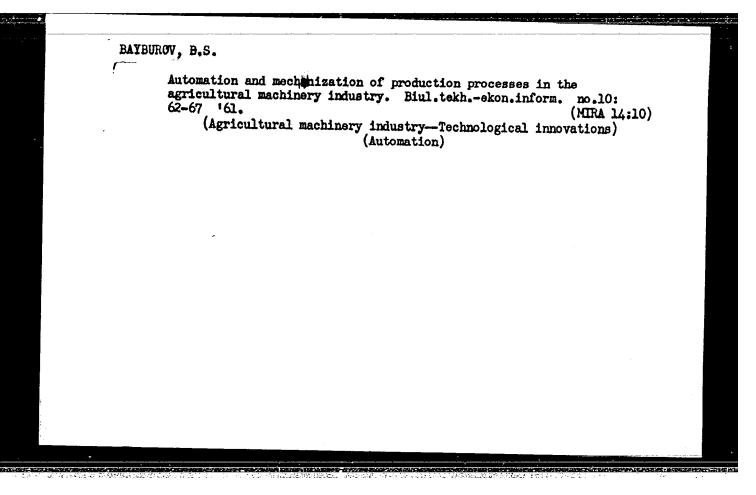
[Automatic controllers] Kontrol'nye avtomaty. Moskva, Winchmo—
tekhm. izd-vo mashinostroit. lit-ry, 1961. 193 p. (MIRA 14:8)

(Electronic measurements)

VYSOTSKIY, A.V.; DVORETSKIY, Ye.R.; KONDASHEVSKIY, V.V.; KUZ'MICHEV, V.T.;
MOROZOV, I.K.; POLYANSKIY, P.M.; TUBENSHLYAK, Z.L.; KHOKHLOVA, G.V.;
CHASOVNIKOV, G.V.; SHLEYFER, M.L.; BAYBUROV, B.S., red.; KOCHENOV,
M.I., red.; MALYY, D.D., red.; AKIMOVA, A.G., red. izd-va; EL'KIND,
V.D., tekhn. red.

[Instruments and devices for operating dimension control in the manufacture of machinery] Pribory i ustroistva dlia aktivnogo kontrolia razmerov v mashinostroenii. By A.V.Vysotskii i dr. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 303 p.

(Machinery industry—Equipment and supplies)
(Automatic control)



ROBIEZON, Ye.A.; GRISHINA, O.N.; MUKHAMEDOVA, L.A.; URHANCHEYEV, F.A.; IZMAYLOV, R.I.; BONCHER, L.Ye.; KASHAYEV, S.-Kh.G.; AMIRKHANOVA, H.G.; GONIK, V.K,; BAYBUROVA, M.Kh.; NBCHAYEVA, M.A.

Petroleums of the Tatar A.S.S.R. Izv.Kazan.fil.AN SSSR.Ser.khim.
nauk no.4:93-113

'57. (MIRA 12:5)
(Tatar A.S.S.R.--Petroleum)

SOV/65-58-9-4/16

AUTHORS:

Mukhamedova, L. A. Bayburova, M. Kh. Robinzon, Ye. A.

TITLE:

Investigation of Hydrocarbons of Naphthalene Series in the Kerosene fraction of oil from the Romankinskoye Cil Fieldoin the Minnibayevskaya

Area. (Issledovaniye uglevodorodov ryada naftalina v

kerosinovov fraktsii nefti Romashkinskogo mestorozhdeniya

Linnibayevskoy ploshchadi)

PERIODICAL:

Khimiya i Tekhnologiya Topliv i Masel, 1953, Nr 9,

pp 18 - 24, (DSSR)

ABSTRACT:

The kerosene fractions of Devonian Tartar petrol contain considerable quantities of aromatic hydrocarbons. Investigations were carried out with the aid of the picrate method and ultra-violet spectra of condensed hydrocarbons of the kerosene fraction (2000 - 32000) of Romashkino petroleum. This fraction was separated by chromatography on silica gel ASM (50 - 100 mesh) into a naphthenic-paraffinic fraction and aromatic concentrate. The latter was divided into monocyclic and dicyclic compounds. The sulphur-containing compounds were separated by oxidising the aromatic concentrate with hydrogen peroxide in a medium of glacial acetic acid and the oxidised sulphur-containing compounds adsorbed on silica gel ASK.

Card 1/3

The desulphurised aromatic hydrocarbons were vacuum

SOV/65-58-9-4/16

Investigation of Hydrocarbons of Naphthalane Series in the Kerosene Fraction of oil from the Romashkinskoye Cil Field in the Minnibayevskaya Area

distilled into three - five-grade fractions in a 37-plate column. Each fraction was treated with picric acid and the naphthalene hydrocarbons were separated. The homologues of naphthalene were separated by rectification, and in some cases the isomers were also split off. The liquid isomers were separated by repeated recrystallization from ethyl or methyl alcohol and subjected to further decomposition. The crystalline hydrocarbons were purified by repeated recrystallization from methyl alcohol. The separated hydrocarbons were identified by elementary analysis and by comparing the physical constants and melting points of secondary picrates with literature data. The individual napthalene hydrocarbons, as well as mixtures of isomers, were further subjected to spectral analysis of the near ultra-violet region (2,900 -The absorption spectra were measured on the 3,300 A°). spect rophotometer SF-4 (in n-pentane solution) (Fig. on page 19). Constants of the separated hydrocarbons are given in a table (pages 20 and 21). The separated hydrocarbons consisted of naphthalene, \$ -methylnaphthalene,

Card 2/3

SOV/65-58-9-4/16

Investigation of Hydrocarbons of Naphthellene Stries in the Kerosene Fraction of Oil from the Romankinskoye Oil Field in the Minnibayevskaya Area

2,6- and 2,3-dimethylnapthalenes, 1,3,7-, 1,2,6- and 2,3,6-trimethylnaphthalenes, 2,3,6,7- and 1,2,5,6- tetramethylnaphthalenes and tetramethylnapthalene (boiling point 107.0 - 107.2°C) of undefined structure. 1,3,7-trimethylnaphthalene was separated from petroleum for the first time. With the aid of ultra-violet absorption spectra, it was possible to establish the presence of x-methylnaphthalene, 1,6-, 1,7-, 1,2- and 1,3-dimethylnaphthalenes and of 1,2,7-, 1,4,5-, 1,4,6-, 1,2,5- and 1,2,4-trimethylnaphthalenes. There is 1 Table, 1 Figure and 21 References: 8 English, 1 German, 1 Swiss and 11 Soviet.

ASSOCIATION: Kazanskiy filial AN SSSR (Kazan: Branch of the AN USSR)

- 1. Petroleum--Fractionation 2. Naphthalenes--Separation
- 3. Hydrocarbons--Chemical analysis 4. Ultra violet spectroscopy

Card 3/3

ROBINZON, Ye.A.; MUKHAMEDOVA, L.A.; GRISHINA, O.N.; BAYBUROVA, M.Kh.

Studying the aromatic hydrocarbons of kerosene fractions obtained from the Romashkino petroleum (Minnibayevo sector) and Bavly field. Izv.vys.ucheb.zav.; noft' i gaz 2 no.11: 99-105 '59. (MIRA 13:4)

1. Kazanskiy khimiko-tekhnologicheskiy institut im. S.M.Kirova i Kazanskiy filial AN SSSR. (Hydrocarbons) (Petroleum products)

#### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

15.4100

77929 SOV/65-60-3-2/19

AUTHORS:

Mukhamedova, L. A., Bayburova, M. Kh.

TITLE:

Tetralin Series Hydrocarbons in the Kerosene Fraction of Petroleum From Romashkinsk Deposit

PERIODICAL:

Khimiya i tekhnologiya topliv i masel, 1960, Nr 3,

pp 5-8 (USSR)

ABSTRACT:

This work is devoted to the study of tetralin series hydrocarbons and is a continuation of the investigation

of aromatic hydrocarbons of kerosene fraction obtained from petroleum of Romashkinsk deposit. Chromatography, rectification, catalytic dehydrogenation, picrate method, and spectral analysis were employed in the study. The results are shown in

Table "A".

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Tetralin Series Hydrocarbons in the Kerosene Fraction of Petroleum From Romashkinsk Deposit

77929 SOV/65-60-3-2/19

Table A. Characteristics of the napthalenes separated in the course of dehydrogenation.

-	2			<del></del>	1	6	1	<del></del>	
3	4	5	. 7	nto	d <sup>20</sup>	8	9	C	<i>10</i>
75—80 85—96	200—207 212—224	<i></i>	// /2	-	-	79,5—80,0	148,5—149,5	<u> </u>  -	 
96102	224233	/2	13	1,6025	1,0036	34,5—35,0 —	115—116	92,85	7,27
102—110	233—245	/3	16	1,6080	1,0051	****	113,0—114,5	92,90 92,41 92,34	7,26 7,88
131-135	273—278	14	17	1,6035	1,0000	-	104106	91,66	8,18
135—140	2 <b>78—2</b> 85	15	18	1,6008	-		112 –114	91,54 91,23 91,20	8.58

Card 2/5

TetralIn Series Hydrocarbons In the Kerosene 77929 Fraction of Petroleum From Romashkinsk Deposit 50V/65-60-3-2/19

Key to Table; (2) bp, C at; (3) 9 mm Hg; (4) 760 mm Hg; (5) Naphthalenes separated prior to dehydrogenation; (6) Naphthalenes separated after dehydrogenation; (7) Name; (8) mp, C; (9) mp of secondary picrates, C; (10) elemental composition (%), found; (11) Naphthalene; (12) \(\beta\)-Methylnaphthalenes; (14) 1,3,7-Trimethylnaphthalene; (15) Trimethylnaphthalenes; (16) 1,6-, 1,7-, and 1,2-Dimethylnaphthalenes; (17) Methylethylnaphthalene; (18) Tetramethylnaphthalene.

Card 3/5

Tetralin Series Hydrocarbons in the Kerosene 77929 Fraction of Petroleum From Romachkinsk Deposit SOV/65-60-3-2/19

The maxima of the ultraviolet absorption spectra (all in Angstroms) of  $\beta$ -methylnapthalene (from fraction 96-102°) are 3,140 and 3,190; of hydrocarbon from fraction 102-110°, 3,070, 3,145 and 3,220; of hydrocarbon (corresponds to the empirical formula  $c_{13}H_{14}$ ) from fraction 131-135°, 3220; and that of hydrocarbon (corresponds to the empirical formula  $c_{14}H_{16}$ ) from fraction 135-140°, 3,195, 3,210 and 3,250. The possible structure of substituted tetralins is shown in Fig. A.

Shown in Fig. A.  $R_1$   $R_1$   $R_1$   $R_1$   $R_1$   $R_1$   $R_1$   $R_2$   $R_3$   $R_4$   $R_4$ 

Card 4/5

Fortrallin Series Hydrocarbons in the Kerosene 77929 Fraction of Petroleum From Romashkinsk Deposit SOV/65-60-3-2/19

There is 1 table; 2 figures; and 9 references, 3 Soviet, 4 U.S., 1 U.K., 1 Swiss. The U.S. and U.K. references are: Mair, B. J., Streiff, A. J., J. Res. Nat. Bur. Stand., 27, 343 (1941); Mikiewicz, M. I., J. Inst. Fetr., 38, 425 (1952); Rossini, Fr. D., and co-workers, Selected Values of Physical and Thermodynamic Properties of Hydrocarbons and Related Compounds, Pittsburgh, Pennsylvania, 79 (1953); Balley, A. S., Bryant, K. C., Hancock, R. A., and others, J. Inst. Petr., 33, 503 (1947); Morton, R. A., de Gonveia, A. I. J. Chem. Soc., 916 (1934).

ASSOCIATION:

Institute of Chemistry of Kazan' Branch of the Academy of Sciences of the USSR (Institut khimii Kazanskogo filiala AN SSSR)

Card 5/5

# MUKHAMEDOVA, L.A.; BAYBUROVA, M.Kh.

Investigation of monocyclic aromatic kerosine hydrocarbons of Minnibayevo curdes by their absorption spectra in the ultraviolet. Izv.Kazan.fil. AN SSSR. Ser.khim.nauk no.6:87-92 161.

(MIRA 16:5)

(Minnibayevo region--Petroleum) (Hydrocarbons-Absorption spectra)

MUKHAMEDOVA, L.A.; BAYBUROVA, M.Kh.; MALYSHKO, T.M.; KUDRYAVTSEVA, M.I.

Synthesis and properties of dialkylepoxyhexahydrophthalates.
Neftekhimia l no.1:88-92 Ja-F '61. (MIRA 15:2)

1. Institut organicheskoy khimii AN SSSR, Kazan'.
(Esters) (Phthalic acid)

MUKHAMEDOVA, L.A.; KUDRYAVTSEVA, M.I.; BAYBUROVA, M.Kh.; MALYSHKO, T.M.; LEPLYANIN, G.V.

Some derivatives of 4,5-epoxyhexahydrophthalates. Neftekhimiia 2 no.3:372-377 My-Je '62. (MIRA 15:8)

1. Institut organicheskoy khimii AN SSSR, Kazan'.
(Epoxy compounds) (Phthalic acid)

MUKHAMEDOVA, L.A.; BAYBUROVA, M.Kh.

Synthesis of some epoxy esters used as plasticizers for polyvinyl chloride resins. Neftekhimiia 3 no.6:900-904 N-D '63. (MIRA 17:3)

1. Institut organicheskoy khimii AN SSSR, Kazan'.

MUKHAMEDOVA, L.A.; BAYBUROVA, M.Kh.; SHAGIDULLIN, R.R.

Reaction of bis- $\beta$ -chloroethyl and bis- $\beta$ - ( $\beta'$ -chloroethoxy) ethyl esters of cis- $\Delta'$ -tetrahydrophthalic acid with sodium alcohelates. Izv. AN SSSR. Ser. khim. no.11:2019-2024 '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN SSSR, Kazan'.

26196 S/081/61/000/012/023/028 B103/B202

11.1210

AUTHORS: Lavrent'yev, V. I., Bayburskiy, L. A., Dronin, A. P.,

Denezhkina, Ye. A. -

TITLE:

Production of fuels for gas and turbine engines from

products obtained in Groznyy

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 12, 1961, 525, abstract

12M172. (Tr. Groznensk. neft. n.-i. in-t, 1960, vyp. 7,

73-85)

TEXT: The authors studied the following distillation and residual products of direct distillation and of secondary origin in order to obtain gas-turbine fuels: kerosene gas oil fractions of the Achalukskiy, Ozek-Suatskiy and Turkmenskiy petroleum, mazout of the Anastasiyevskiy petroleum, kerosene of thermal cracking, cracking residue, contact-coking distillate of pitch of petroleums containing sulfur. It was found possible to obtain gas-turbine fuels with satisfactory values of viscosity, solidification point, and vanadium content from the products of Groznyy. The following products were recommended for examination on

Card 1/2

26196 S/081/61/000/012/023/028 Production of fuels for gas and turbine ... B103/B202

field plants (naturnyye ustanovki): mazout of the Anastasiyevskiy petroleum and its mixtures with the kerosene gas oil fractions of Achalukskiy (80:20), Ozek-Suyatskiy (85-15), and Turkmenskiy (80:20) petroleum, mixture of the Groznyy cracking residue with sulfur-containing cracking kerosene (75:25) and the distillate of contact coking of asphalt from which gasoline had been removed and to which 1.5% of Groznyy cracking residue had been added in order to lower the solidification point. [Abstracter's note: Complete translation.]

Card 2/2

KOZOREZOV, Yu.I.; BAYBURSKIY, L.A.; MANOVYAN, A.K.

Effect of the intermediate circulating reflux on the process of distillation in a column. Khim. i tekh. topl. i masel 6 no.11: 27-32 N '61. (MIRA 14:12)

1. Groznenskiy nauchno-issledovatel'skiy neftyanoy institut. (Plate towers)

\$/081/62/000/002/090/107 B157/B110

11.0132

Malin, A. G., Bayburskiy, L. A., Krechetova, P. I. AUTHORS:

TITLE:

The possibility of obtaining gas turbine fuels from products processed at the Groznyy refineries

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1962, 495, abstract 2M297 (Tr. Groznensk. neft. n.-i. in-t, no. 11, 1961, 25-38)

TEXT: The results are described of an investigation into the possibility of obtaining gas turbine fuels from gasoline-free oils, from various distillates and residual products, by simple distillation and secondary refinery products, or from mixtures of these products. It was established that the production of fuels with low ash content requires the crude oil to be treated so that the chloride content amounts to < 30 mg/liter and dehydrated so that the water content amounts to € 0.1 - 0.2%. Groznyy mixed paraffin crude oils gasoline-free to 160 - 170°C, Achalukskiy and Karabulakskiy mixed crude oils, and Ozeksuatskiy and Turkmenian crude oils can be used as fuel for stationary gas turbine plants. Simple distillation fractions, filtrates of paraffin production and kerosenes

Card 1/2

5/081/62/000/022/056/088 B180/B186

AUTHORS:

Amerik, B. K., Bayburskiy, L. A.

TITLE:

Raising the octane number of automobile gasoline

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 22, 1962, 426, abstract

22M82 (Neftyanik, no. 5, 1962, 15-16)

TEXT: The article considers methods of increasing the production of highoctane automobile gasolines in Groznyy refineries. These methods are:
1. thermal reforming of the straight-run 120-195°C fraction, raising the
octane number from 35-38 to 68-70 by the motor method; 2. altering the
conditions for catalytic cracking with a bead catalyst (raising temperature
from 400 to 445°C and reducing the volumetric rate from 0.7 to 0.5-0.6 hr<sup>-1</sup>),
which increases the gasoline yield from 16-18 to 32 % and raises its octane
number to 76; 3. redesigning existing catalytic cracking plant; 4. thermocatalytic treatment of residual oils, including the destructive vacuum
distillation of residual oils and the catalytic cracking of distillates
which, on the example of the residue from Ozeksuat crude, gives a
considerably higher yield of gasoline with octane number 77 than does

Card 1/2

# "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

Raising the octane number of... S/081/62/000/022/056/088 B180/B186

thermal cracking. At the same time diesel fuel type  $\mathcal N$  (L) will be produced with cetane number 50, which requires no further treatment. [Abstracter's note: Complete translation.]

Card 2/2

KOZOREZOV. Yu.i.; BAYBURSKIY, L.A.; MANOVYAN, A.K.; GONCHAROVA, N.A.; KHACHATUROVA, D.A.

Studying the operation of troughed plated of industrial rectification columns. Khim.i tekh.topl.i masel 7 no.2:40-44 F 162. (MIRA 15:1)

1. Groznenskiy nauchno-issledovatel skiy neftyanoy institut.
(Plate towers)

S/065/63/000/003/002/006 E075/E436

AUTHORS:

Kaz'min, G.I., Bayburskiy, L.A., Odintsov, A.B.

TITLE:

Preparation of a solvent for the production of

polyethylene

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.3, 1963, 19-22 TEXT: The solvent was prepared from commercial extraction grade benzene extracted from low-sulphur, paraffinic Groznyy crudes. The most suitable fraction of the benzene had the initial boiling points 75 to 95°C, benzene content 1.5 to 2.3 wt.%, sulphur content < 0.005 wt.%, naphthenic hydrocarbons 40 to 48 wt.%. The production costs of this solvent are lower than those for a similar solvent produced from catalytic reformates. The costs could be decreased further by employing fully instrumented and automatically controlled fractionating columns. The authors recommend that the centre for the production of solvents for the manufacture of copolymers should be situated in Groznyy because of its resources in raw materials. There are 1 figure and 4 tables.

ASSOCIATION: GrozNII, GNPZ

Card 1/1

# MANOVIAN, A.K.; BAYBURSKIY, L.A.

Particular features of the design of the intermediate sections of complex rectification columns. Khim. i tekh. topl. i masel 8 no.4:20-26 Ap 169. (MIRA 16:6)

1. Groznenskiy nauchno-issledovatel'skiy neftyanoy institut.

(Petroleum-Refining)

(Plate towers)

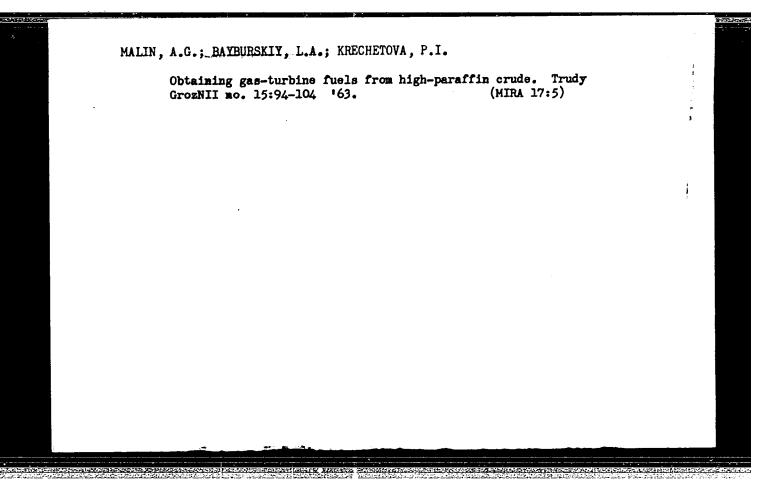
## BAYBURSKIY, L.A.; MANOVYAN, A.K.

Operation of the stripping sections of complex columns.

Khim. i tekh. topl. i masel 8 no.9:55-59 S '63.

(MIRA 16:11)

1. Groznenskiy nauchno-issledovatel'skiy neftyanoy institut.



KOZOREZOV, Yu.I.; BAYBURSKIY, L.A.; MANOVYAN, A.K.; GONCHAROVA, N.A.

Operation indices and the evaluation of certain methods for designing rectifying columns for industrial petroleum refining plants. Trudy GrozNII no. 15:148-164 '63.

(MIRA 17:5)

BAYBURSKIY, L.A.; MANOVYAN, A.K.; ODINTSOV, O.K.

Diagram of the atmospheric distillation of oil and the operation of topping towers. Nefteper. i neftekhim. no.8:12-15 '63.

(MIRA 17:8)

1. Groznenskiy neftyanov nauchno-issledovatel'skiy institut.

AUTHOR: Marlin. A. G.	SQURCE CODE: UR/0318/64/000/012/ Nikolayeva, V. G. Bayburskiy, L. A. Krechetova, I	P. I.; 77/83
ORG: GrozNII	ov. L. T.; Ovsyannikov, P. V.; Vlasov, F. F.	- 61 8
		//
	gas turbine fuel on the basis of products of thermal	Cracking
	otka i neftekhimiya, no. 12, 1964, 24-26	
TOPIC TAGS: gas turbi	ine fuel, petroleum refining	
•	234455 with a boiling range of 200-350° obtained by ther	ma 1
cracking of a mixture	of mazut with a low sulfur content (0.31% S) and	
bine locomotives. Th	S) was found to be a satisfactory fuel for gas tu	on-
bine locomotives. The tent of 0.2%, a low v	se fuel had a low ash content (0.0007%), a sulfur contains content (traces), and a pour point of minu	0 <b>n-</b>
bine locomotives. The tent of 0.2%, a low version 17° against minus 12°	se fuel had a low ash content (0.0007%), a sulfur c	0 <b>n-</b>
bine locomotives. The tent of 0.2%, a low value 120 against minus 120 2 tables. [JPRS]	se fuel had a low ash content (0.0007%), a sulfur contact (traces), and a pour point of minu required by standard specifications. Orig. art. had	0 <b>n-</b>
bine locomotives. The tent of 0.2%, a low value 170 against minus 120 2 tables. [JPRS]	se fuel had a low ash content (0.0007%), a sulfur contains content (traces), and a pour point of minu	0 <b>n-</b>
bine locomotives. The tent of 0.2%, a low version 17° against minus 12° 2 tables. ZPRSZ	se fuel had a low ash content (0.0007%), a sulfur contact (traces), and a pour point of minu required by standard specifications. Orig. art. had	0 <b>n-</b>

L 04236-67 EWT(1)

ACC NR: AR6031902

SOURCE CODE: UR/0058/66/000/006/H043/H043

AUTHOR: Kaplan, Ye. S.; Baybursyan, E. D.

7/

TITLE: Magnetic type transmission line using ferrites

SOURCE: Ref. zh. Fizika, Abs. 6Zh297

REF SOURCE: Tr. 1-y Mezhvuz, konferentsii ped. in-tov po radiofiz. i

spektroskopii. M., 1965, 126-137

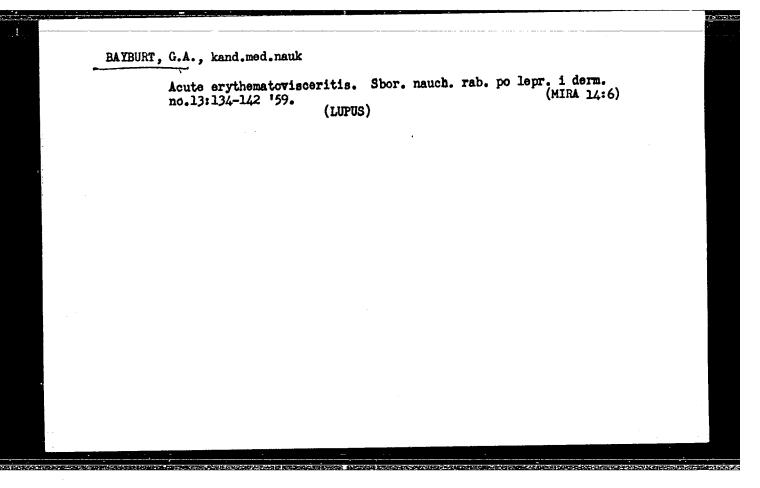
TOPIC TAGS: transmission line, reluctance, permeance, ferrite magnetic

circuit

ABSTRACT: A two-conductor open magnetic type transmission line using guiding elements in the form of round ferrite magnetic circuits is investigated. The reluctance and permeance are calculated. It is shown that at given frequencies and electromagnetic parameters of the ferrite, the nature of its internal reluctance reactance depends on the magnetic circuit diameter. Conditions for line transparency are established. Problems concerning the correct selection of the ferrite brand and transverse dimensions of the line are discussed. [Translation of abstract]

SUB CODE: 09, 20/

C-4 1/1 2/2



15(2) AUTHORS: SOV/72-59-3-4/19

Kitaygorodskiy, I. I., Bayburt, L. G., Zertsalova, I. N.,

Karpechenko, V. G., Faynberg, Ye. A.

TITLE:

Investigation of the Possibility of Obtaining the

"Vizhurit" Glass (Issledovaniye vozmozhnosti polucheniya

stekla vizhurit)

PERIODICAL:

Steklo i keramika, 1959, Nr 3, pp 12 - 13 (USSR)

ABSTRACT:

The shatterproof glass presently manufactured has the defect of completely disintegrating into fragments, although not dangerous ones, when given a blow. It is however required in motor car traffic that on destruction of the glass at least a small part of it, the one in front of the driver's eyes, is left undamaged. In 1956 the authors of the present paper carried out investigations at the Gusevskiy zavod imeni Dzerzhinskogo (Gusev Factory imeni Dzerzhinskiy) for the purpose of obtaining a "Vizhurit" type glass, which is produced abroad by various patented processes. Experiments were made on the flat windshields of the "Moskvich" car (974 × 327 × 5.5 mm). The results obtained are shown in figures 1 and 2, but they are not regarded as satisfactory,

Card 1/2

# "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

Investigation of the Possibility of Obtaining the

SOV/72-59-3-4/19

"Vizhurit" Glass

as the glass, according to figure 2 burst after 10 - 15 days as a consequence of internal strains. These experiments must now be carried on. There are 2 figures.

ASSOCIATION:

Gusevskiy zavod imeni Dzerzhinskogo (Gusevskiy Factory imeni

Dzerzhinskiy)

Card 2/2

### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

L 59592-65 ENT(1) /EPP(e)/EPA(s)-2/ENT(m)/EPP(c)/ENP(1)/EPA(w)-0/ENP(1)/T /EFG(b)-9/

AUTHOR: Bayburt, L. G., Gorbachev, A. A.; Levitina, A. V.

TITLE: Study of structural transformations in crystallizable glasses by means of UV absorption spectra

SOURCE: AN SSSR. Doklady, v. 162, no. 5, 1965, 1079-1082

TOPIC TAGS: glass crystallization, nonalkeli glass, thermal shock, titanium dioxide, glass structure, ultraviolet absorption spectrum

ABSTRACT: The subject of the study was alkali-free glass in the system SiO<sub>2</sub> - Al<sub>2</sub>O<sub>3</sub> - CaO - MgO with admixtures of TiO<sub>2</sub> (glass No. Dl, D2, and D3). The study was particularly concerned with No. D3, which is an optimum glass for preparing pyroceramics. The kinetics of the structural transformations were studied by UV spectra in D3 glass samples subjected to thermal shock (from 750 to 9000 at 50-degree intervals) for 1 min. A comparison of the minims on the UV curves for various temperatures of heat treatment (see Fig. 1 of the Enclosure) shows that the rate at which the structural transformations occur increases with temperature, particularly above 1500. The UV spectra change mate for glasses produced in a

Card 1/3

#### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

L 59592-65 ACCESSION NR: AP5017456

reducing medium than for those melted under oxidizing conditions. The spectre indicate that the defectiveness of the glass structure, characterized by the magnitude of the minimum, is related to the crystallizing properties of the glass. X-ray analysis showed that crystallization proceeds at a high rate at 950C and ends at 1059C; this is associated with the appearance of high maxima on the UV absorption spectra, which shift toward longer wavelengths with rising crystallization temperature. As the titanium content increases, so does the defectiveness of the glasses, which predetermines their crystallizability. The UV spectral method makes it possible to account for the observed experimental fact that the reduction of Ti4 to Ti3+ increases the crystallizability of glass: when Ti is reduced, the detectiveness or the glass increases for a constant ling content. The study also showed that the structural rearrangements associated with crystallization differ from precrystallization rearrangements. It is concluded that the method is very effective in accounting for the structural aspects of crystallizable glasses and can be used for investigating their crystallization. Orig. art. has: 4 figures.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy institut elektrovakuumnogo stekla (State Scientific Research Institute of Vacuum Tube Glass)

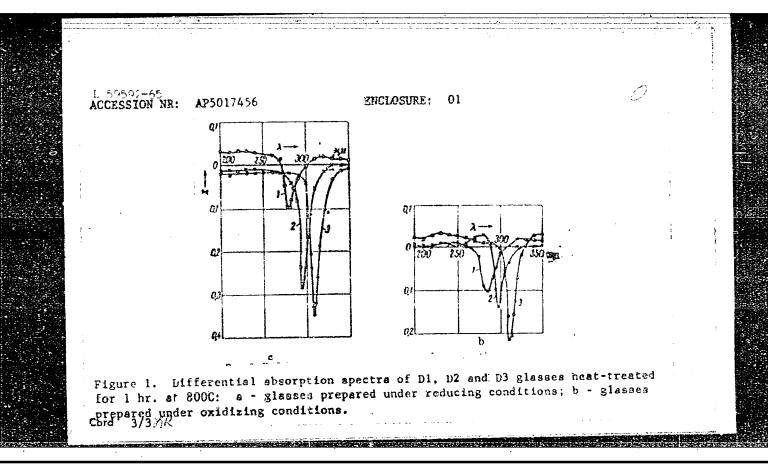
SUBMITTED: 04Nov64

ENCL: 01

SUP CODE: MI, OP

CANG REF SOV:2/201

OTHER: 000



Bayburt, Ye. A. -- "On Tauma of the Cervical Region. (Experimental Investigation)."

Kishinev State Red Inst, Kishinev, 1955 (Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis', No. 24, Moscow, Jun 55, pp 91-104

BAYPURTTSYAN, A.A.

42518. Effektivnyy Operativno-konservativnyy sposob lecheniya Zabole vaniya Kholki. V ogl: Baiburtyan A. A. Trudy yerevansk. Zoovet. In-Ta, Vyp. 10, 1948, S. 167-98.

## bayburtsyan, a. a.

"Gelding of sheep and goats, keeping appendages and jointtissued of testicles."

Veterinariya, Vol. 37, No. 6, 1960, p. 48

Chiez. Chair Operative Surgery, German Zoovet hat

### BAYBURTTSYAN, A.A.

Castration of smaller cattle with retention of the appendix testis and the connective tissue basis of the testicles.

Veterinariia 37 no.6:48-51 Je \*60. (MIRA 16:7)

1. Zaveduyushchiy kafedroy operativnoy khirurgii Yerevanskogo sooveterinarnogo instituta.
(Castration)

BAY BURTTSYAN, Aramis Aramovich, zasl. deyatel' nauk, prof.; USACHEVA, I.G., red.; MEYEVA, V.M., tekhn. red.

[New method for increasing livestock productivity] Novyi metod povysheniia produktivnosti akota. Moskva, Izd-vo sel'khoz.lit-ry, zhurnalov i plakatov, 1961. 150 p. (MIRA 15:1)

1. Zaveduyushchiy kafedroy operativnoy khirurgii Yerevanskogo zooveterinarnogo instituta (for Bayburttsyan).

(Stock and stockbreeding)

KADILOV, Ye.V.; BAYBURTTSYAN, A.A.; OVSEPYAN, A.A.

Anatomical and histological characteristics of some organs in farm animals as related to different methods of castration. Izv. AN Arm. SSR. Biol. nauki 14 no.6:7-13 '61. (MIRA 14:10)

l. Kafedry gistologii i operativnoy khirurgii Terevanskogo sooveterinarnogo instituta. (CASTRATION) (MUSCLE)

# BAYBURTTSYAN, A.A.; KENTIKYAH, M.L.; STEPANYAN, A.S.

Chemical composition of the meat of wethers, castrated without the removal of the epididymis and the connective tissue base of the testicle. Zhivotnovodstvo 23 no.5137-38 My '61.

(MIRA 16:2)

1. Yerevarakiy sooveterinarnyy institut.
(Mutton—Compositon) (Castration)

#### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

BAY FURTTSYAN, A.A., (Professor of the Erevan Zooveterinary Institute)

"Attainments of veterinary science should be introduced into the practice of livestock breeding more promtply".

Veterinariya, vol 39, no.1 Jan 1962. pp 14

#### BAYBURTTSYAN, A.A., prof.

Speed up the introduction of the accomplishments of veterinary science into animal husbandry. Veterinariia 39 no.1:14 Ja 162.
(MIRA 15:2)

1. Yerevanskiy zooveterinarnyy institut.
(Veterinary medicine)
(Stock and stockbreeding)

BAYBURTTSYAN, A.A., prof.; AKHUMYAN, V.A.; KAZARYAN, G.A., kand. med. nauk, ARUTYUNYAN, R.R.; NAZINYAN, S.A.; ARUTYUNYAN, V.M.

Radioactive iodine (1<sup>131</sup>) used in determining the hormonal activity of the thyroid gland in rats following castration. Vop. radiobiol. [AN Arm. SSR] 3/4 225-228 163. (M1RA 17:6)

17.

### BAYBURTYAN, A.G.

Content of ammonia and glutamine in the arterial blood and cerebrospinal fluid in some nervous and mental diseases. Vop. med. khim. 9 no.6:601-603 N-D 163.

(MIRA 17:10)

1. Kafedra biokhimii Rostovskogo-na-Donu universiteta.

### "APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020010-2

BAYBUTAYEN, K. B.

PAYBUTAYEW, K. B. -- "A Comparative Test of Various Systems of Solar Water Heaters." Acad Sci USSR. Power Engineering Institute imeni G. M. Krzhizhanovskiy. Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SOURCE Knizhnaya Letopist, No 6 1956

Faybazja, 11

133-10-13/26

Semchenko, O. A., Baybuz, A. N., Medvedeva, N. I. and Azarov, A. T., Engineers. AUTHOR:

Heating of Alloyed Steel Ingots in Recuperative Soaking Pts. (Progrev Legirovannogo Slitka v Rekuperativnykh Kolodtsakh) TITIE:

PERIODICAL: Stal', 1957, No.10, pp. 915-917 (USSR).

ABSTRACT: An investigation of the distribution of temperatures across ingots and the differences between indicated and actual temperatures of metal during heating in recuperative soaking pits is described. Heating of ingots of wx15 and wx15Cr steels as well as some other high

carbon alloy steels was unsatisfactory, namely axial overheating of the ingot was observed. The investigations

indicated that the existing practice of heating up to 1230-1210°C was incorrect, the limiting temperature was found to be 1160-1180°C. There are 3 figures.

ASSOCIATION: Dneprospetsstal' Works. (Zavod Dneprospetsstal').

AVAILABLE: Library of Congress

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5(4)

ATTHOR:

Baybuz, V. F.

SOV/76-32-11-29/32

TITLE:

The Intermolecular Potential and the Second Virial Coefficient of Sulfur Dioxide Gas (Mezhmolekulyarnyy potentsial i vtoroy

virial'nyy koeffitsiyent sernistogo gaza)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 11, pp 2644-2645

(USSR)

ABSTRACT:

The values of the virial coefficients can be calculated for diverse temperatures from the intermolecular potential; from these values again the compressibility, the specific heat and other thermodynamic properties of a real gas can be determined. Stokmayer calculated the intermolecular potential of SO, ac-

cording to the dipolar moment  $\mu = 1.61$  D, which had been determined by Zahn (Tsan) (Ref 1). Rowlinson (Roulinson) (Ref 2) represented the virial coefficient according to the potential by Stokmayer and the traditional mechanics. To determine the quantities of the intermolecular potential of the SO2 molecule

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data by Riedel (Ridel) (Ref 3), and Cooper and Maass (Kuper and Mass) (Ref 4) were used. Based on these quantities the

SOV/76-32-11-29/32 The Intermolecular Potential and the Second Virial Coefficient of Sulfur Dioxide Gas

values of the second virial coefficients of SO<sub>2</sub> up to 1200°K were calculated (Table) using the table by Rowlingon. The calculated values of B agree well with the experimental data

of B supplied by various authors.

There are 1 table and 6 references, 2 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut goryuchikh iskopayemykh (Academy

of Sciences, USSR, Institute of Mineral Fuels)

SUBMITTED: May 8, 1958

Card 2/2

5(4) AUTHORS:

SOV/76-33-1-10/45 Medvedev, V. A., Korobov, V. V., Baybuz, V. F. (Moscow)

TITLE:

Investigation of the Thermodynamic Properties of Substances According to the Method of the Explosion in a Spherical Bomb (Issledovaniye termodinamicheskikh svoystv veshchestv metodom vzryva v sfericheskoy bombe) II. Hydroxyl (II. Gidrokail)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 1, pp 58-64 (USSR)

ABSTRACT:

In the investigation under review a spherical bomb with a capacity of 20 1 was used. An optical instrument (Fig 1) based on a design proposed by L'yuis and El'be (Ref 1) served as pressure indicator. The changes in pressure were recorded by an oscillograph of the type 950-302 and the recordings measured by means of a measurement microscope MIR-12. Publications described various methods for the determination of the dissociation heat of water vapor on hydrogen- and hydroxyl ions, and the different results which were obtained (Table 1). So far  $\Delta H = 67 \pm 0.65$  kcal/mol (Dweyr (Dwayyer) and Oldenberg (Ref 16)) has been regarded as the most accurate value. However, the

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spectrographical determinations of A. P. Purmal' (Ref 17) which resulted in a value of 64.4 + 1.0 kcal/mol seem to be

CIA-RDP86-00513R000204020010-2"

APPROVED FOR RELEASE: 06/06/2000

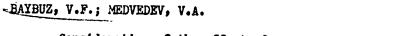
SOV/76-33-1-10/45

Investigation of the Thermodynamic Properties of Substances According to the Method of the Explosion in a Spherical Bomb. II. Hydroxyl

> more accurate. It is stated that the investigations carried out by Wohl (Vol), Magat (Ref 11), Lewis and Elbe (L'yuis and El'be) (Ref 14) furnished too low results, in reference 11 on account of wrong calculations, and in reference 14 on account of heat losses. In the present determinations according to the explosion method, an oxygen-hydrogen mixture with a surplus of oxygen and an addition of water vapor was used, since heat losses occurring with the combustion of these mixtures are smaller. 21 explosion experiments were carried out. The calculation method has already been given (Ref 19). The mean value obtained for the reaction H20 gas + 1/2 H2 gas is  $\Delta E_0^0 = 65.5$  kcal/mol in accordance with the dissociation energy of the hydroxyl of  $D_0(OH) = 102.2 \text{ kcal/mol}$ . The equilibrium constants Kp were calculated for various temperatures (Table 4). There are 2 figures, 4 tables, and 22 references, 5 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut goryuchikh iskopayemykh (tcademy of Sciences, USSR, Institute for Mineral Fuels)

Card 2/3



Consideration of the effect of pressure on the thermodynamic functions of real gases. Trudy IGI 12:190-195 '61. (MIRA 14:3) (Gases) (Thermodynamics)

11.7200 11.5000 29821, S/020/61/140/006/023/030 B107/B101

AUTHOR:

Baybuz, V. F.

TITLE:

The explosion method and the heats of formation of  $CP_A$ ,

CF3C1, CFC13, and CC14

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 140, no. 6, 1961,

1358 - 1360

TEXT: The present publication describes a way of calculating heats of formation from explosion tests in spherical bombs, and gives data on the combustion of H<sub>2</sub> and O<sub>2</sub>, as well as the heats of formation of CF<sub>4</sub>, CFCH, CFCl<sub>3</sub>, and CCl<sub>4</sub>. The theory of the normal velocity of flame propagation was applied for the calculation (L. N. Khitrin, Fizika goreniya i vzryva (Physics of combustion and explosion) M., 1957). Spherical glass bombs were used for the experiments. The experimental arrangement has been described in detail previously (V. A. Medvedev, V. V. Korobov, V. F. Baybus, ZhFKh, 33, 58 (1959)). Heat losses during explosion tests are due to 1) heat conduction Card 1/4

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The explosion method and the...

by the walls, and 2) to a boundary layer of the gas at the walls of the bomb remaining unburned. The thickness of this layer was calculated at:

$$\Delta x = \frac{c_o \lambda T_o(p_e/p_o-1)}{\frac{H_T - H_T}{T_p - T_o}}, \text{ where } c_o \text{ is an apparatus constant, determined}$$

experimentally,  $\lambda$  the coefficient of thermal conductivity of the gas mixture,  $T_0$  and  $p_0$  the initial temperature and the initial pressure,  $p_e$  the maximum pressure during the explosion,  $H_{T_p}$ — $H_{T_0}$  the change of heat content of the gas mixture on heating from  $T_0$  to  $T_p$ ,  $T_p$  is the temperature of the flame front. Applying the equation of state for ideal gases one obtains for the explosion temperature

$$T_e = T_o \frac{P_e}{\alpha \cdot P_o} \left[ 1 + \frac{3\Delta x}{r_o} (2\alpha - 1) \right]$$
, where  $r_o$  is the radius of the bomb,

The explosion method and the ...

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 $\alpha = \sum_{n_e} / \sum_{n_i} \sum_{n_i} \text{ the molar number taking part in the reaction, } \sum_{n_e} \text{ the molar number of combination products. Assuming the transferred heat to be sufficient to heat the boundary layer up to <math>T_p$ , the heat balance is  $\sum_{n} \sum_{n=0}^{\infty} \sum_{n=0}$ 

The explosion method and the ...

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were:  $\Delta H_{f298}^{O}_{K}$  (CF<sub>4</sub>, gas) = -220.1  $\pm$  1.4 kcal/mole;  $\Delta H_{f298}^{O}_{K}$  (CF<sub>3</sub>Cl, gas) = -166.2  $\pm$  2.2 kcal/mole;  $\Delta H_{f298}^{O}_{K}$  (CCl<sub>3</sub>F, gas) = -66.4  $\pm$  2.1 kcal/mole;  $\Delta H_{f298}^{O}_{K}$  (CCl<sub>4</sub>, gas) =  $\frac{1}{2}$  -24.6  $\pm$  1.9 kcal/mole. There are 21 references: 8 Soviet and 13 non-Soviet. The three most recent references to Englishlanguage publications read as follows: W. T. David, R. M. Parkinson, Phil. Hag., 15, 96 (1933); B. Lewis, G. Elbe, Phil. Mag. 20, 44 (1935); R. W. Fenning, A. C. Wiffin, Phil. Trans. Roy. Soc., A 238, 142 (1939).

ASSOCIATION: Institut goryuchikh iskopayenykh Akademii nauk SSSR

(Institute: of Mineral Puels of the Academy of Sciences USSR)

PRESENTED: May 27, 1961, by V. N. Kondrat'yev, Academician

SUBMITTED: May 24, 1961

Card 4/4

BAYBUZ, V	<i>,F.</i>	^Z	
•	Phase I book exploitation	sov/6260	
	Gurvich, Lev Veniaminovich, Georgiy Akopovich Khachkuru Andreyevich Hedvedev, Inessa Veniaminovna Veyts, Geovich Bergman, Vladimir Stepanovich Yungman, Nina Petcheva, Lidiya Fedorovna Kuratova, Georgiy Nikolayevi Amaliya Abramovna Kane, Boris Fedorovich Yudin, Bori Brounshteyn, Viktor Feodoseveyich Baybus, Valeriy Al Kvlividze, Yevgeniy Aleksandrovich Frozorovskiy, and drovich Yorobiyev.	izov, Vadim irgiv Andreye- irovna Rtish- ch Yurkov, a Isidorovich	
	Termodinamicheskiye svoystva individual'nykh veshchestv v dvukh tomakh. tom 1: Vychisleniye termodinamiche tom 2: Tablitsy termodinamicheskikh svoystv (Thermo- erties of Individual Substances; Reference Book in T v. 1: Calculation of Thermodynamic Properties; v. 2	skikh svoystv; dynamic Prop- Wo Volumes. : Tables of	
•	Thermodynamic Properties). 2d ed., rev. and enl. M AN SSSR, 1962. 1161 and 916 p. 4000 copies printed	DEAM THATUS	
•	AN SSSR, 1902. 1101 and 910 p. 4000 copies printed  Sponsoring Agencies: Akademiya nauk SSSR. Institut co	oscow, Izd-vo  *	,
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	AN SSSR, 1902. 1101 and 910 p. 4000 copies printed  Sponsoring Agencies: Akademiya nauk SSSR. Institut co	oscow, Izd-vo  *	
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Thermodynamic Properties (Cont.)

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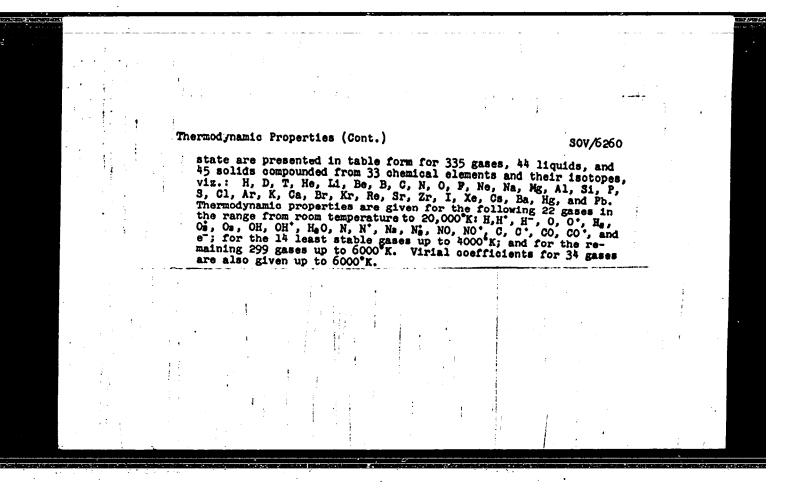
po khimii. Institut prikladnoy khimii.

Resp. Ed.: V. P. Glushko, Academician, L. V. Gurvich, G. A. Khach-kuruzov, I. V. Veyts, and V. A. Medvedev; Ed. of Publishing House: K. P. Gurov; Tech. Ed.: V. G. Laut.

PURPOSE: This reference book may be used in scientific-research and experimental-design work in institutes, design offices, and schools of higher education, as well as for training specialists in chemical thermodynamics and thermal physics.

COVERAGE: Volume 1 of this work deals with methods for calculating thermodynamic properties and with the selection of constants required for the calculations. Volume 2 contains tables of thermodynamic properties (reduced thermodynamic potential, entropy, enthalpy, and the logarithm of the dissociation or ionization constants of equilibrium) compiled, where data were lacking, on the basis of published and unpublished material from a number of Soviet research institutes. Thermodynamic properties for the ideal gas

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38:28 5/076/62/036/006/002/011 B101/B144

//, 8200 AUTHOR:

Baybuz, V. F. (Moscow)

TITLE:

Heat losses during explosions in a spherical bomb

PERIODICAL:

Zhurnal fizicheskoy khimii, v. 36, no. 6, 1962, 1280-1286

TEXT: A new method of calculating heat losses during explosions in a spherical bomb is proposed. A theoretical study suggests that owing to heat transmission to the walls of the bomb, a certain layer,  $\Delta x$ , of the gas mixture does not burn, as it is not heated to the equilibrium temperature.  $\Delta x$  is calculated from the equation  $\Delta x$ .  $= \left( \frac{1}{C_0} \lambda T_0 \left( \frac{1}{P_0} - 1 \right) \right) / \left( \frac{1}{Q_0} / \frac{1}{Q_0} \right) / \left( \frac{1}{Q_0} - \frac{1}{Q_0} \right)$ , where  $\lambda$ 

= coefficient of thermal conductivity of the gas mixture,  $c_0$  = constant;  $p_e$  = pressure after the explosion,  $p_0$  = initial pressure; T = duration of explosion; T is the temperature of the gas mixture in front of the propagating flame;  $H_T$  -  $H_T$  = change in enthalpy when heating from  $T_0$ 

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